

Title (en)
PROCESS FOR THE SYNTHESIS OF IONIC LIQUIDS WITH A CARBONATE FUNCTIONAL GROUP AND IONIC LIQUIDS THUS OBTAINED

Title (de)
VERFAHREN ZUR SYNTHESE VON IONISCHEN FLÜSSIGKEITEN MIT EINER CARBONAT-FUNKTIONSGRUPPE UND SO ERHALTENE IONISCHE FLÜSSIGKEITEN

Title (fr)
PROCÉDÉ DE SYNTHÈSE DE LIQUIDES IONIQUES À GROUPE FONCTIONNEL CARBONATE ET LIQUIDES IONIQUES AINSI OBTENUS

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Application
EP 14703377 A 20140210

Priority
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Abstract (en)
[origin: WO2014124892A1] The present invention relates to a method for synthesising ionic liquids comprising a carbonate functional group characterized in that it comprises a reaction step A without addition of lithium between a first reactant chosen from an imidazolium, a pyrrolidinium or an ammonium and a second reactant being a methyl formate imidazolium. The first reactant is an imidazolium alcohol salt, a pyrrolidinium alcohol salt or an ammonium alcohol salt, the anion of which is NTf₂. The second reactant is a chloromethyl formate imidazolium. The application of this method will be found in the field of green chemistry and more specifically for the production of ionic liquids that can be used in lithium batteries with a graphite electrode.

IPC 8 full level
C07C 213/06 (2006.01); **C07C 303/40** (2006.01); **C07C 311/48** (2006.01); **C07D 233/60** (2006.01); **H01M 10/052** (2010.01); **H01M 10/0569** (2010.01); **H01M 4/587** (2010.01)

CPC (source: EP US)
C07C 213/06 (2013.01 - EP US); **C07C 303/40** (2013.01 - EP US); **C07C 311/48** (2013.01 - US); **C07D 233/60** (2013.01 - EP US); **H01M 10/052** (2013.01 - EP US); **H01M 10/0525** (2013.01 - US); **H01M 10/0569** (2013.01 - EP US); **H01M 4/587** (2013.01 - EP US); **H01M 2300/0028** (2013.01 - US); **H01M 2300/0045** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP); **Y02P 20/582** (2015.11 - EP US)

C-Set (source: EP US)
1. **C07C 213/06 + C07C 219/16**
2. **C07C 303/40 + C07C 311/48**

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See references of WO 2014124892A1

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